

**Polynuclear Aromatic Hydrocarbon  
Sample Data Summary Package Cover Sheet**

**Client:** FOSTER WHEELER  
**Project:** ROXANNA MARSH  
**SDG:** 920866B

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## Case Narrative

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**Client** FOSTER WHEELER  
**Project Name** ROXANNA MARSH  
**Project Number** 1980.0208.0100  
**SDG** 920866B  
**Fraction** BNA

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Lab Number	Sample ID	Collect Date	Rec Date	Matrix
920866-023	FW-RM-10-CS-1.7-4.0	3/20/2002	3/22/2002	SOIL
920866-024	FW-RM-10-CS-1.7-4.0MS	3/20/2002	3/22/2002	SOIL
920866-025	FW-RM-10-CS-1.7-4.0MSD	3/20/2002	3/22/2002	SOIL
920866-026	FW-RM-10-CS-0.7-1.7	3/20/2002	3/22/2002	SOIL
920866-028	FW-RM-13-CS-3.1-6.0	3/20/2002	3/22/2002	SOIL
920866-029	FW-RM-13-CS-1.0-3.1	3/20/2002	3/22/2002	SOIL
920866-030	FW-RM-20-CS-2.4-4.2	3/20/2002	3/22/2002	SOIL
920866-032	FW-RM-20-CS-4.2-6.0	3/20/2002	3/22/2002	SOIL
920866-034	FW-RM-15-CS-3.0-4.6	3/20/2002	3/22/2002	SOIL
920866-035	FW-RM-15-CS-1.2-3.0	3/20/2002	3/22/2002	SOIL
920866-037	FW-RM-12-CS-2.3-5.3	3/20/2002	3/22/2002	SOIL
920866-038	FW-RM-12-CS-1.1-1.9	3/20/2002	3/22/2002	SOIL
920866-040	FW-RM-04-CS-2.7-4.8	3/19/2002	3/22/2002	SOIL
920866-041	FW-RM-04-CS-0.5-2.7	3/19/2002	3/22/2002	SOIL
920866-042	FW-RM-05-CS-3.3-5.9	3/20/2002	3/22/2002	SOIL
920866-043	FW-RM-05-CS-0.7-3.3	3/20/2002	3/22/2002	SOIL
920866-045	FW-RM-02-CS-2.7-5.2	3/20/2002	3/22/2002	SOIL
920866-046	FW-RM-02-CS-0.8-2.7	3/20/2002	3/22/2002	SOIL
920866-047	FW-RM-19-CS-2.0-4.0	3/21/2002	3/22/2002	SOIL
920866-049	FW-RM-19-CS-0.7-2.0	3/21/2002	3/22/2002	SOIL
920866-050	FW-RM-18-CS-0.7-2.3	3/21/2002	3/22/2002	SOIL
920866-051	FW-RM-18-CS-2.3-4.3	3/21/2002	3/22/2002	SOIL
920866-070	MB3920866			SOIL
920866-071	MB3920866LCS			SOIL
920866-072	MB3920866LCSD			SOIL

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**EN CHEM, INC**  
**CASE NARRATIVE - PAHs by GC/MS**

Lab Report Number (SDG): 920866B  
Client: FOSTER WHEELER  
Project Name: ROXANNA MARSH  
Project Number: 1980.0208.0100

**1. RECEIPT**

The samples were received on ice.

**2. HOLDING TIMES**

- F. **Sample Preparation:** All method holding times were met.
- G. **Sample Analysis:** All method holding times were met.

**3. METHOD**

Preparation: SW-846 3550B  
Analysis: SW-846 8270C

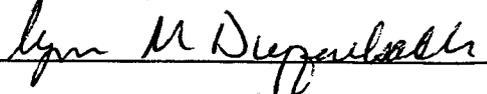
**4. PREPARATION**

Sample preparation proceeded normally.

**5. ANALYSIS**

- A. **Calibration:**
  - 1. **GC/MS Tune:** All method acceptance criteria were met.
  - 2. **Initial verification:** The method acceptance criteria were met for all CCC and SPCC compounds.
  - 3. **Continuing verification:** The method acceptance criteria were met for all CCC and SPCC compounds.
- B. **Blanks:**
  - 1. **Method:** All in-house acceptance criteria were met
- C. **Surrogates:** All surrogate recoveries met the in-house acceptance criteria. Due to the level of dilution at which samples FW-RM-18-CS-0.7-2.3, FW-RM-05-CS-0.7-3.3 and FW-RM-12-CS-1.1-1.9 were analyzed, the recovery criteria is not applicable.
- D. **Spikes:**
  - 1. **Lab Control Spike/Laboratory Control Spike Duplicate (LCS/LCSD):** All in-house accuracy and precision criteria were met by MB3920866LCS and MB3920866LCSD.
  - 2. **Matrix Spike / Matrix Spike Duplicate (MS/MSD):** Sample FW-RM-10-CS-1.7-4.0 was designated as the matrix spike sample for this SDG. Recoveries of Naphthalene, Acenaphthylene and Acenaphthene exceeded the in-house accuracy criteria. The parent and spike sample results for these analytes were reported with an "N" data qualifier. All other accuracy and all precision criteria were met.
- E. **Internal Standards:** All in-house acceptance criteria were met.
- F. **Samples:** Sample analyses proceeded normally.
- G. **Dilutions:** All soil samples were analyzed at a 1:2 or higher dilution due to matrix interferences which caused low internal standard recoveries in the undiluted analyses. Sample results were reported to the laboratory method detection limit (MDL) to provide the lowest reporting limit possible for the non detected analytes.
- H. **Reanalysis:** None reported for this SDG.
- I. **Comments:** None.

I certify that this data package is in compliance with the terms and conditions agreed to by **En Chem, Inc.** and by the client, both technically and for completeness, except for the conditions detailed above. The Laboratory Manager or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

Signed:  Date: 5-1-02  
Name: Lynn M Dieffenbach Position: Project Manager

**Organic Data Qualifiers**

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate results outside control criteria or not available due to sample dilution.
- H(n) Extraction or analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- N Spiked sample recovery not within control limits.
- P The relative percent difference between the two columns for detected concentrations was greater than 40%.
- Q The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- S The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
- U The analyte was not detected above the reporting limit.
- W Sample received with headspace.
- X See Sample Narrative.
- & Laboratory Control Spike recovery not within control limits.
- \* Duplicate analyses not within control limits.
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. #405132750.

(Please Print Legibly)  
 Company Name: Foster Wheeler  
 Branch or Location: Denver  
 Project Contact: 4880 Fay Moss  
 Telephone: 303-980-3579  
 Project Number: 1580, 0208, 0100  
 Project Name: Roxanna Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Goldpansch

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Codes	COLLECTION	
				DATE	TIME
12086-001	FW-RM-11-SS	UST	W-Water	3-20-02	09:17
002	FW-RM-11-SS	RCRA	S-Soil	3-20-02	09:17
003	FW-RM-11-SS	SOWA	A-Air	3-20-02	09:17
005	FW-RM-11-SS	NPDES	C-Charcoal	3-20-02	09:17
006	FW-RM-11-SS	CEQCLA	B-Biota	3-20-02	09:17
007	FW-RM-14-SS		S-Sludge	3-20-02	09:17
008	FW-RM-21-SS			3-20-02	09:17
009	FW-RM-19-SS			3-20-02	09:17
010	FW-RM-18-SS			3-20-02	09:17
011	FW-RM-13-SS			3-20-02	09:17
012					
013					
014					

Rush Turnaround Time Requested (TAT) - Prelim  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #:  
 Fax #:  
 E-Mail Address:

**EN CHEM INC.**  
 1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX: 920-469-9527

**CHAIN OF CUSTODY** 78316  
 \*Preservation Codes  
 C-H2SO4 E-EnCore  
 D-HNO3 F-Methanol G-NaOH  
 I=Other  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE):

Page 1 of 1  
 P.O. # Quote #  
 Mail Report To: Foster Moss  
 Company: FUEAC  
 Address: 143 Glenwood Blvd  
 Suite 100 Lakewood, CO 80428  
 Invoice To: Gary Branch  
 Company: FUEAC  
 Address: 1200 NE 195th St  
 Portland, WA 98011

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Codes	DATE	TIME	MATRIX	ANALYSES REQUESTED	TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
002	FW-RM-11-SS	RCRA	S-Soil	3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
003	FW-RM-11-SS	SOWA	A-Air	3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
005	FW-RM-11-SS	NPDES	C-Charcoal	3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
006	FW-RM-11-SS	CEQCLA	B-Biota	3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
007	FW-RM-14-SS		S-Sludge	3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
008	FW-RM-21-SS			3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
009	FW-RM-19-SS			3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
010	FW-RM-18-SS			3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
011	FW-RM-13-SS			3-20-02	09:17	S	RCRA/UST/PAH/OP/G	1		
012										
013										
014										

Relinquished By: Fed Ex  
 Date/Time: 3/22/02 12:18  
 Relinquished By: Fed Ex  
 Date/Time: 3/22/02 10:30  
 Relinquished By: Fed Ex  
 Date/Time: 3/22/02 10:30  
 Relinquished By: Fed Ex  
 Date/Time: 3/22/02 10:30  
 Relinquished By: Fed Ex  
 Date/Time: 3/22/02 10:30

En Chem Project No. 920866  
 Sample Receipt Temp. 3/22/02 10:30  
 Sample Receipt pH (see/Matrix) 0K  
 Cooler Custody Seal Present Not Present  
 Intact Not Intact

(Please Print Legibly)

Company Name: Fesler Wholesale  
 Branch or Location: Denver  
 Project Contact: Pam Moss  
 Telephone: 303-280-3579  
 Project Number: 1980.0203.0102  
 Project Name: Coxiana Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Foldgusch

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID  
 (Lab Use Only)

FIELD ID

9206-012 FW-DM-EB-02

Regulatory Program  
 UST  
 RCRA  
 SDWA  
 NPDES  
 CERCLA

COLLECTION DATE

TIME

3/20/02 16:00

Matrix Codes  
 W=Water  
 S=Soil  
 A=Air  
 C=Charcoal  
 B=Biota  
 Sl=Sludge

MATRIX

W

# CHAIN OF CUSTODY

78323

Preservation Codes  
 A=None B=HCl C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Other

FILTERED? (YES/NO)

PRESERVATION (CODE)

A A D C C

Page 1 of 2

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_

Mail Report To: Pam Moss

Company: Fesler Wholesale

Address: Lake Central, CO

Invoice To: Greg Grier

Company: FuENC

Address: Bethell, WI

Mail Invoice To: \_\_\_\_\_

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

ANALYSES REQUESTED  
 Ref 1/2/02  
 PA 4  
 PA 7  
 PA 10  
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Rush Turnaround Time Requested (RAT) - Prelim  
 (Rush RAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_  
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: \_\_\_\_\_  
 Date/Time: 3/20/02 12:15  
 Relinquished By: Fed Ex  
 Date/Time: 3/20/02 10:30  
 Relinquished By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Received By: Fed Ex  
 Date/Time: 3/20/02 10:30  
 Received By: Ryan Choover  
 Date/Time: 3/20/02 10:30  
 Received By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

En Chem Project No. 920866  
 Sample Receipt Temp. 32.33, 14.3, 10.1  
 Sample Receipt # OK  
 Cooler Custody Seal OK  
 Present / Not Present Present  
 Intact / Not Intact Intact

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0602

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-9927



(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Denver  
 Project Contact: Pam Moss  
 Telephone: 303-980-3519  
 Project Number: 1980.0203.0100  
 Project Name: Coxsack Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
920866-013	FW-LM-03-05-4-8-28	3-9	15:20	S
014	FW-LM-07-05-5-4-76	3-9	15:40	S
015	FW-LM-07-05-26-5-4	3-9	15:40	S
016	FW-LM-07-05-26-3-19	3-9	15:40	S
017	FW-LM-20-05-08-24	3-20	17:30	S
018	FW-LM-10-05-4-05-2	3-20	15:00	S

Regulatory Program	Matrix Codes	COLLECTION		MATRIX
		DATE	TIME	
UST	W-Water			
RCRA	S-Soil			
SDWA	A-Air			
HFDES	C-Charcoal			
CERCLA	B-Biota			
	SI-Sludge			

**Rush Turnaround Time Requested (TAT) - Prelim**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (circle):  
 Phone Fax E-Mail  
 Phone #:  
 Fax #:  
 E-Mail Address:  
 Samples on HOLD are subject to special pricing and release of liability

525 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0502

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX: 920-469-8827



# CHAIN OF CUSTODY

78324

Page 2 of 2

\*Preservation Codes  
 D-HNO3 E-EnCore  
 F-Methanol G-NaOH  
 L=Other  
 A=None B-HCl C-H2SO4  
 H=Sodium Bisulfite Solution  
 FILTERED? (YES/NO)  
 PRESERVATION (CODE):

ANALYSES REQUESTED  
 GPC / GC/MS / AAH / ORS  
 GC/MS / AAH / ORS / GC/MS / AAH / ORS

TOTAL # OF BOTTLES SENT

P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: Pam Moss  
 Company: Foster Wheeler  
 Address: \_\_\_\_\_  
 Invoice To: Lakeview, CO  
 Company: FWERC  
 Address: Bothell, WI  
 Mail Invoice To: \_\_\_\_\_

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
4 Archive	
4 Archive	
4	
4	
4	
4 Archive	

En Chem Project No. 920866  
 Sample Receipt Temp. 32.33 / 14.3 ROT  
 Sample Receipt pH / (Met/Meats) OK  
 Cooler Custody Seal Present / Not Present  
 Intact / Not Intact Intact

Relinquished By: [Signature] Date/Time: 3-21-02 11:15  
 Relinquished By: Fed Ex Date/Time: 3/22/02 10:30  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_











(Please Print Legibly)

Company Name: Foster Wheeler  
 Branch or Location: Deerwin  
 Project Contact: Cam Moss  
 Telephone: 303-980-3519  
 Project Number: 1980.0208 0100  
 Project Name: Koanna Marsh  
 Project State: Indiana  
 Sampled By (Print): Bob Feldpausch

**Data Package Options**  
 (please circle if requested)  
 Results Only  
 EnChem Level III (Subject to Surcharge)  
 EnChem Level IV (Subject to Surcharge)

LABORATORY ID (Lab Use Only)	FIELD ID	Regulatory Program	Matrix Codes	COLLECTION		ANALYSES REQUESTED	PRESERVATION (CODE)*	FILTERED? (YES/NO)	EnChem Level	EnChem Project No.
				DATE	TIME					
920866-056	FW-LM-06-05-07-21	UST	W-Water	3-21	12:20	1	A		920866	
057	FW-LM-06-05-28-47	RCRA	S-Soil	3-21	12:10	1	A		920866	
058	FW-LM-11-05-07-24	SDWA	A-Air	3-21	10:18	1	A		920866	
059	FW-LM-11-05-21-42	NPDDES	C-Charcoal	3-21	10:18	1	A		920866	
060	FW-LM-11-05-04-26-7	CERCLA	B-Biota	3-21	10:18	1	A		920866	
061	FW-LM-14-05-07-20		S-Sludge	3-21	09:53	1	A		920866	
062	FW-LM-14-05-20-38			3-21	09:53	1	A		920866	
063	FW-LM-14-05-38-56			3-21	09:53	1	A		920866	

**Rush Turnaround Time Requested (TAT) - Prelim**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_  
 Transmit Prelim Rush Results by (circle):  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-Mail \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-Mail Address: \_\_\_\_\_

**Relinquished By:** [Signature] Date/Time: 3-21-02 17:00  
**Relinquished By:** FedEx Date/Time: 3/22/02 10:30  
**Relinquished By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_  
**Relinquished By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_  
**Relinquished By:** \_\_\_\_\_ Date/Time: \_\_\_\_\_

# CHAIN OF CUSTODY

78319

\*Preservation Codes  
 D-HN03 E-Encore G-Methanol  
 L-Other

A=None B-HCL C-H2SO4  
 H= Sodium Bisulfate Solution I= Other

ANALYSES REQUESTED  
 Date/Time: 3/21/02 10:18  
 Date/Time: 3/21/02 12:10  
 Date/Time: 3/21/02 10:18  
 Date/Time: 3/21/02 10:18  
 Date/Time: 3/21/02 10:18  
 Date/Time: 3/21/02 09:53  
 Date/Time: 3/21/02 09:53  
 Date/Time: 3/21/02 09:53

EnChem Project No. 920866  
 Sample Receipt Temp. 33.33H3  
 Sample Receipt pH ROI  
 (Water/Media) OK  
 Cooler / Custody Seal System  
 Intact / Not Intact Intact

LABORATORY ID	FIELD ID	Regulatory Program	Matrix Codes	DATE	TIME	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
920866-056	FW-LM-06-05-07-21	UST	W-Water	3-21	12:20	4	
057	FW-LM-06-05-28-47	RCRA	S-Soil	3-21	12:10	4	
058	FW-LM-11-05-07-24	SDWA	A-Air	3-21	10:18	4	
059	FW-LM-11-05-21-42	NPDDES	C-Charcoal	3-21	10:18	4	
060	FW-LM-11-05-04-26-7	CERCLA	B-Biota	3-21	10:18	4	Archive
061	FW-LM-14-05-07-20		S-Sludge	3-21	09:53	4	
062	FW-LM-14-05-20-38			3-21	09:53	4	
063	FW-LM-14-05-38-56			3-21	09:53	4	Archive

1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436  
 FAX 920-469-8927

**EN-CHEM**  
 INC.

825 Science Drive  
 Madison, WI 53711  
 608-232-3300  
 FAX: 608-233-0602

Page 1 of 1  
 R.O. # \_\_\_\_\_ Quote # \_\_\_\_\_  
 Mail Report To: FuelMoss  
 Company: FWEHC  
 Address: Lakeview CO  
 Invoice To: Gary Bisuh  
 Company: FWEHC  
 Address: Bethell, WI

TOTAL # OF BOTTLES SENT \_\_\_\_\_

# En Chem, Inc. Cooler Receipt Log

Batch No. 920866

Project Name or ID Roxanna Marsh

No. of Coolers: 7 Temps: 3, 2, 3, 3, 1, 4, 3 °C

A. Receipt Phase: Date cooler was opened: 3/22/02 By: RJC

- 1: Were samples received on ice? (Must be ≤ 6 C).....  YES NO<sup>2</sup>
- 2: Was there a Temperature Blank?.....  YES NO
- 3: Were custody seals present and intact? (Record on COC).....  YES NO
- 4: Are COC documents present?.....  YES NO<sup>2</sup>
- 5: Does this Project require quick turn around analysis?..... YES  NO
- 6: Is there any sub-work?.....  YES NO
- 7: Are there any short hold time tests?.....  YES NO
- 8: Are any samples nearing expiration of hold-time? (Within 2 days)..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_
- 9: Do any samples need to be Filtered or Preserved in the lab?..... YES<sup>1</sup>  NO Contacted by/Who \_\_\_\_\_

B. Check-in Phase: Date samples were Checked-in: 3/22/02 By: RJC

- 1: Were all sample containers listed on the COC received and intact?..... YES  NO<sup>2</sup> *broken lids - see NC NA RJC*
- 2: Sign the COC as received by En Chem. Completed.....  YES NO
- 3: Do sample labels match the COC? .....  YES NO<sup>2</sup>
- 4: Check sample pH of preserved samples. (Not VOCs) Completed.....  YES NO NA
- 5: Do samples have correct chemical preservation?.....  YES NO<sup>2</sup> NA
- 6: Are dissolved parameters field filtered?..... YES NO<sup>2</sup>  NA
- 7: Are sample volumes adequate for tests requested? .....  YES NO<sup>2</sup>
- 8: Are VOC samples free of bubbles >6mm ..... YES NO<sup>2</sup>  NA
- 9: Enter samples into logbook. Completed.....  YES NO
- 10: Place laboratory sample number on all containers and COC. Completed.....  YES NO
- 11: Complete Laboratory Tracking Sheet (LTS). Completed.....  YES NO NA
- 12: Start Nonconformance form. ....  YES NO NA
- 13: Initiate Subcontracting procedure. Completed..... YES  NO NA
- 14: Check laboratory sample number on all containers and COC. ....  YES NO NA

**Short Hold-time tests:**

48 Hours or less Coliform (6 hrs) Hexavalent Chromium (24 Hrs) BOD Nitrite or Nitrate Low Level Mercury Ortho Phosphorus Turbidity Surfactants Sulfite En Core Preservation Color	7 days Flashpoint TSS Total Solids TDS Sulfide Free Liquids Total Volatile Solids <input checked="" type="radio"/> Aqueous Extractable Organics- ALL Unpreserved VOC's Ash	Footnotes 1 Notify proper lab group immediately. 2 Complete nonconformance memo.
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## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-10-CS-1.7-4.0

Collection Date : 3/20/02

Lab Sample Number : 920866-023

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 110	110	ug/kg	N	4/8/02	SW846 8270C
Acenaphthylene	< 100	100	ug/kg	N	4/8/02	SW846 8270C
Anthracene	< 71	71	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 100	100	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 77	77	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 150	150	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 210	210	ug/kg		4/8/02	SW846 8270C
Chrysene	< 150	150	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 110	110	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 110	110	ug/kg		4/8/02	SW846 8270C
Fluorene	< 120	120	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 250	250	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 120	120	ug/kg	N	4/8/02	SW846 8270C
Phenanthrene	< 130	130	ug/kg		4/8/02	SW846 8270C
Pyrene	< 150	150	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-10-CS-0.7-1.7

Collection Date : 3/20/02

Lab Sample Number : 920866-026

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 170	170	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 150	150	ug/kg		4/8/02	SW846 8270C
Anthracene	< 100	100	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 150	150	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 200	200	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 220	220	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 310	310	ug/kg		4/8/02	SW846 8270C
Chrysene	< 230	230	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 160	160	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 160	160	ug/kg		4/8/02	SW846 8270C
Fluorene	< 180	180	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 360	360	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 170	170	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 190	190	ug/kg		4/8/02	SW846 8270C
Pyrene	< 210	210	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-13-CS-3.1-6.0

Collection Date : 3/20/02

Lab Sample Number : 920866-028

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

#### PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 130	130	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 110	110	ug/kg		4/8/02	SW846 8270C
Anthracene	< 80	80	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 87	87	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 150	150	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 240	240	ug/kg		4/8/02	SW846 8270C
Chrysene	< 170	170	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluorene	< 140	140	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 280	280	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 130	130	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 140	140	ug/kg		4/8/02	SW846 8270C
Pyrene	< 160	160	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-13-CS-1.0-3.1

Collection Date : 3/20/02

Lab Sample Number : 920866-029

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 150	150	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 140	140	ug/kg		4/8/02	SW846 8270C
Anthracene	< 96	96	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 140	140	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 190	190	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 210	210	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 280	280	ug/kg		4/8/02	SW846 8270C
Chrysene	< 210	210	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 140	140	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 150	150	ug/kg		4/8/02	SW846 8270C
Fluorene	< 160	160	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 340	340	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 160	160	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 170	170	ug/kg		4/8/02	SW846 8270C
Pyrene	< 200	200	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-20-CS-2.4-4.2  
Lab Sample Number : 920866-030  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/1/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 160	160	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 140	140	ug/kg		4/8/02	SW846 8270C
Anthracene	< 100	100	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 140	140	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	720	200	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 220	220	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 300	300	ug/kg		4/8/02	SW846 8270C
Chrysene	310	220	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 150	150	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 160	160	ug/kg		4/8/02	SW846 8270C
Fluorene	< 170	170	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 350	350	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 170	170	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 180	180	ug/kg		4/8/02	SW846 8270C
Pyrene	390	210	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-20-CS-4.2-6.0

Collection Date : 3/20/02

Lab Sample Number : 920866-032

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 120	120	ug/kg		4/8/02	SW846 8270C
Anthracene	< 86	86	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 94	94	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 180	180	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 250	250	ug/kg		4/8/02	SW846 8270C
Chrysene	< 190	190	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 130	130	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 130	130	ug/kg		4/8/02	SW846 8270C
Fluorene	< 150	150	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 300	300	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 140	140	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 160	160	ug/kg		4/8/02	SW846 8270C
Pyrene	< 180	180	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-15-CS-3.0-4.6  
Lab Sample Number : 920866-034  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/1/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 130	130	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 110	110	ug/kg		4/8/02	SW846 8270C
Anthracene	< 79	79	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 86	86	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 150	150	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 230	230	ug/kg		4/8/02	SW846 8270C
Chrysene	< 170	170	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluorene	< 140	140	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 270	270	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 130	130	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 140	140	ug/kg		4/8/02	SW846 8270C
Pyrene	< 160	160	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-15-CS-1.2-3.0  
Lab Sample Number : 920866-035  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/1/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 130	130	ug/kg		4/8/02	SW846 8270C
Anthracene	< 91	91	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 130	130	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 99	99	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 180	180	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 190	190	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 270	270	ug/kg		4/8/02	SW846 8270C
Chrysene	< 200	200	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 140	140	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Fluorene	< 150	150	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 320	320	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 150	150	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 160	160	ug/kg		4/8/02	SW846 8270C
Pyrene	< 190	190	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-12-CS-2.3-5.3  
Lab Sample Number : 920866-037  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/1/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 130	130	ug/kg		4/8/02	SW846 8270C
Anthracene	< 89	89	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 130	130	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 97	97	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 190	190	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 260	260	ug/kg		4/8/02	SW846 8270C
Chrysene	< 190	190	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 130	130	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Fluorene	< 150	150	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 310	310	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 150	150	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 160	160	ug/kg		4/8/02	SW846 8270C
Pyrene	260	180	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-12-CS-1.1-1.9

Collection Date : 3/20/02

Lab Sample Number : 920866-038

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 5100	5100	ug/kg		4/9/02	SW846 8270C
Acenaphthylene	< 4500	4500	ug/kg		4/9/02	SW846 8270C
Anthracene	24000	3200	ug/kg		4/9/02	SW846 8270C
Benzo(a)anthracene	97000	4500	ug/kg		4/9/02	SW846 8270C
Benzo(a)pyrene	30000	3500	ug/kg		4/9/02	SW846 8270C
Benzo(b)fluoranthene	68000	6200	ug/kg		4/9/02	SW846 8270C
Benzo(g,h,i)perylene	45000	6800	ug/kg		4/9/02	SW846 8270C
Benzo(k)fluoranthene	< 9400	9400	ug/kg		4/9/02	SW846 8270C
Chrysene	280000	6900	ug/kg		4/9/02	SW846 8270C
Dibenzo(a,h)anthracene	9400	4800	ug/kg		4/9/02	SW846 8270C
Fluoranthene	95000	5000	ug/kg		4/9/02	SW846 8270C
Fluorene	13000	5400	ug/kg		4/9/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	24000	11000	ug/kg		4/9/02	SW846 8270C
Naphthalene	< 5200	5200	ug/kg		4/9/02	SW846 8270C
Phenanthrene	< 5700	5700	ug/kg		4/9/02	SW846 8270C
Pyrene	390000	6500	ug/kg		4/9/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-04-CS-2.7-4.8

Collection Date : 3/19/02

Lab Sample Number : 920866-040

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 100	100	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 92	92	ug/kg		4/8/02	SW846 8270C
Anthracene	< 65	65	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 92	92	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 71	71	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 130	130	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 140	140	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 190	190	ug/kg		4/8/02	SW846 8270C
Chrysene	< 140	140	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 98	98	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 100	100	ug/kg		4/8/02	SW846 8270C
Fluorene	< 110	110	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 230	230	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 110	110	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 120	120	ug/kg		4/8/02	SW846 8270C
Pyrene	< 130	130	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-04-CS-0.5-2.7

Collection Date : 3/19/02

Lab Sample Number : 920866-041

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

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### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 120	120	ug/kg		4/8/02	SW846 8270C
Anthracene	< 87	87	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	120	95	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	740	170	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 190	190	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 260	260	ug/kg		4/8/02	SW846 8270C
Chrysene	240	190	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 130	130	ug/kg		4/8/02	SW846 8270C
Fluoranthene	200	140	ug/kg		4/8/02	SW846 8270C
Fluorene	< 150	150	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 300	300	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 140	140	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 160	160	ug/kg		4/8/02	SW846 8270C
Pyrene	300	180	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-05-CS-3.3-5.9

Collection Date : 3/20/02

Lab Sample Number : 920866-042

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 120	120	ug/kg		4/8/02	SW846 8270C
Anthracene	< 87	87	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 95	95	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 190	190	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 260	260	ug/kg		4/8/02	SW846 8270C
Chrysene	< 190	190	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 130	130	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Fluorene	< 150	150	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 300	300	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 140	140	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 160	160	ug/kg		4/8/02	SW846 8270C
Pyrene	< 180	180	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-05-CS-0.7-3.3

Collection Date : 3/20/02

Lab Sample Number : 920866-043

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 3400	3400	ug/kg		4/9/02	SW846 8270C
Acenaphthylene	< 3000	3000	ug/kg		4/9/02	SW846 8270C
Anthracene	9500	2100	ug/kg		4/9/02	SW846 8270C
Benzo(a)anthracene	78000	3000	ug/kg		4/9/02	SW846 8270C
Benzo(a)pyrene	26000	2300	ug/kg		4/9/02	SW846 8270C
Benzo(b)fluoranthene	65000	4100	ug/kg		4/9/02	SW846 8270C
Benzo(g,h,i)perylene	40000	4600	ug/kg		4/9/02	SW846 8270C
Benzo(k)fluoranthene	7300	6300	ug/kg		4/9/02	SW846 8270C
Chrysene	260000	4600	ug/kg		4/9/02	SW846 8270C
Dibenzo(a,h)anthracene	18000	3200	ug/kg		4/9/02	SW846 8270C
Fluoranthene	65000	3300	ug/kg		4/9/02	SW846 8270C
Fluorene	5300	3700	ug/kg		4/9/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	20000	7400	ug/kg		4/9/02	SW846 8270C
Naphthalene	< 3500	3500	ug/kg		4/9/02	SW846 8270C
Phenanthrene	< 3900	3900	ug/kg		4/9/02	SW846 8270C
Pyrene	290000	4400	ug/kg		4/9/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH  
Project Number : 1980.0208.0100  
Field ID : FW-RM-02-CS-2.7-5.2  
Lab Sample Number : 920866-045  
Lab Project Number : 920866

Submitter : FOSTER WHEELER  
Report Date : 5/1/02  
Collection Date : 3/20/02  
Matrix Type : SOIL  
WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 120	120	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 100	100	ug/kg		4/8/02	SW846 8270C
Anthracene	< 74	74	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 81	81	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 140	140	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 160	160	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 220	220	ug/kg		4/8/02	SW846 8270C
Chrysene	< 160	160	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 110	110	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluorene	< 130	130	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 260	260	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 120	120	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 130	130	ug/kg		4/8/02	SW846 8270C
Pyrene	< 150	150	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-02-CS-0.8-2.7

Collection Date : 3/20/02

Lab Sample Number : 920866-046

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 130	130	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 110	110	ug/kg		4/8/02	SW846 8270C
Anthracene	< 80	80	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 87	87	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	600	150	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 240	240	ug/kg		4/8/02	SW846 8270C
Chrysene	280	170	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 120	120	ug/kg		4/8/02	SW846 8270C
Fluorene	< 140	140	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 280	280	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 130	130	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 140	140	ug/kg		4/8/02	SW846 8270C
Pyrene	170	160	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-19-CS-2.0-4.0

Collection Date : 3/21/02

Lab Sample Number : 920866-047

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 160	160	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 140	140	ug/kg		4/8/02	SW846 8270C
Anthracene	< 100	100	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	310	140	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 110	110	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	820	190	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 210	210	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 290	290	ug/kg		4/8/02	SW846 8270C
Chrysene	940	220	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 150	150	ug/kg		4/8/02	SW846 8270C
Fluoranthene	250	160	ug/kg		4/8/02	SW846 8270C
Fluorene	< 170	170	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 350	350	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 160	160	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 180	180	ug/kg		4/8/02	SW846 8270C
Pyrene	1000	210	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-19-CS-0.7-2.0

Collection Date : 3/21/02

Lab Sample Number : 920866-049

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 1000	1000	ug/kg		4/9/02	SW846 8270C
Acenaphthylene	< 910	910	ug/kg		4/9/02	SW846 8270C
Anthracene	5900	650	ug/kg		4/9/02	SW846 8270C
Benzo(a)anthracene	46000	920	ug/kg		4/9/02	SW846 8270C
Benzo(a)pyrene	15000	700	ug/kg		4/9/02	SW846 8270C
Benzo(b)fluoranthene	27000	1200	ug/kg		4/9/02	SW846 8270C
Benzo(g,h,i)perylene	18000	1400	ug/kg		4/9/02	SW846 8270C
Benzo(k)fluoranthene	2700	1900	ug/kg		4/9/02	SW846 8270C
Chrysene	97000	1400	ug/kg		4/9/02	SW846 8270C
Dibenzo(a,h)anthracene	6600	970	ug/kg		4/9/02	SW846 8270C
Fluoranthene	27000	1000	ug/kg		4/9/02	SW846 8270C
Fluorene	5200	1100	ug/kg		4/9/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	9000	2200	ug/kg		4/9/02	SW846 8270C
Naphthalene	< 1100	1100	ug/kg		4/9/02	SW846 8270C
Phenanthrene	1200	1200	ug/kg		4/9/02	SW846 8270C
Pyrene	110000	1300	ug/kg		4/9/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-18-CS-0.7-2.3

Collection Date : 3/21/02

Lab Sample Number : 920866-050

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	2700	2100	ug/kg		4/9/02	SW846 8270C
Acenaphthylene	< 1900	1900	ug/kg		4/9/02	SW846 8270C
Anthracene	6500	1300	ug/kg		4/9/02	SW846 8270C
Benzo(a)anthracene	35000	1900	ug/kg		4/9/02	SW846 8270C
Benzo(a)pyrene	15000	1500	ug/kg		4/9/02	SW846 8270C
Benzo(b)fluoranthene	28000	2600	ug/kg		4/9/02	SW846 8270C
Benzo(g,h,i)perylene	17000	2900	ug/kg		4/9/02	SW846 8270C
Benzo(k)fluoranthene	3900	3900	ug/kg		4/9/02	SW846 8270C
Chrysene	82000	2900	ug/kg		4/9/02	SW846 8270C
Dibenzo(a,h)anthracene	7700	2000	ug/kg		4/9/02	SW846 8270C
Fluoranthene	29000	2100	ug/kg		4/9/02	SW846 8270C
Fluorene	4800	2300	ug/kg		4/9/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	12000	4600	ug/kg		4/9/02	SW846 8270C
Naphthalene	< 2200	2200	ug/kg		4/9/02	SW846 8270C
Phenanthrene	< 2400	2400	ug/kg		4/9/02	SW846 8270C
Pyrene	100000	2700	ug/kg		4/9/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.

## - Analytical Report -

Project Name : ROXANNA MARSH

Submitter : FOSTER WHEELER

Project Number : 1980.0208.0100

Report Date : 5/1/02

Field ID : FW-RM-18-CS-2.3-4.3

Collection Date : 3/21/02

Lab Sample Number : 920866-051

Matrix Type : SOIL

Lab Project Number : 920866

WI DNR LAB ID : 113172950

### Semivolatile Organic Results

PAH LIST - SEMIVOLATILES

Prep Method: SW846 3550

Prep Date: 4/1/02

Analyte	Result	MDL	Units	Code	Analysis Date	Analysis Method
Acenaphthene	< 190	190	ug/kg		4/8/02	SW846 8270C
Acenaphthylene	< 160	160	ug/kg		4/8/02	SW846 8270C
Anthracene	< 120	120	ug/kg		4/8/02	SW846 8270C
Benzo(a)anthracene	< 170	170	ug/kg		4/8/02	SW846 8270C
Benzo(a)pyrene	< 130	130	ug/kg		4/8/02	SW846 8270C
Benzo(b)fluoranthene	< 230	230	ug/kg		4/8/02	SW846 8270C
Benzo(g,h,i)perylene	< 250	250	ug/kg		4/8/02	SW846 8270C
Benzo(k)fluoranthene	< 340	340	ug/kg		4/8/02	SW846 8270C
Chrysene	< 250	250	ug/kg		4/8/02	SW846 8270C
Dibenzo(a,h)anthracene	< 180	180	ug/kg		4/8/02	SW846 8270C
Fluoranthene	< 180	180	ug/kg		4/8/02	SW846 8270C
Fluorene	< 200	200	ug/kg		4/8/02	SW846 8270C
Indeno(1,2,3-cd)pyrene	< 410	410	ug/kg		4/8/02	SW846 8270C
Naphthalene	< 190	190	ug/kg		4/8/02	SW846 8270C
Phenanthrene	< 210	210	ug/kg		4/8/02	SW846 8270C
Pyrene	< 240	240	ug/kg		4/8/02	SW846 8270C

NOTE: N-Nitrosodiphenylamine cannot be separated from diphenylamine.